

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("time-reverse" and viterbi).CLM.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 14:00
L2	0	("time-reverse" and viterbi).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 14:01
L3	1	("time-reverse" and (initial adj state) and sequence).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 14:56
L4	1	((prior adj state) and (initial adj state) and (minimum adj error) and sequence).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 14:55
L5	1	((time adj reverse) or "time-reverse") and (initial adj state) and sequence).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 14:57
L6	1	((time adj reverse) or "time-reverse") and ((candidate adj path) or (initial adj state)) and sequence).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:01
L7	1	((branch adj error adj metric ) and (sequence adj identification) and select\$3).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:02
L8	4	("time-reverse" or (time adj reverse)) same viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:07

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L10	1150	714/795	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L11	3	sequences with initial with state same (symbol) same (candidate) same (decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L12	8	viterbi and liu.in. and low with power and high with performance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L13	726	714/794	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L14	1	"10/044207"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L15	267	viterbi with high with rate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L16	0	candidate with (each or all) near (initial adj state)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L17	1	"10/603388"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12

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L18	3	(sequence with (estimat\$3 or identificat\$3)) with (candidate adj (path or seuquence)) and select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L19	2	(sequence with (estimat\$3 or identificat\$3)) with (candidate near path) same select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L20	6	("6577679" "6647061" "6671322"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L21	280	(sequence with (estimat\$3 or identificat\$3)) with (candidate adj (path or sequence)) and select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L22	47	viterbi and liu.in. and low with power	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L23	3	sequences with initial with state same (symbol) same (candidate same decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L24	1641	375/262	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L25	15414	(sequence with (estimat\$3 or identify\$3)) with (candidate adj (path or sequence)) with select\$3 viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12

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L26	27	(sequence with (estimat\$3 or identificat\$3)) with (candidate adj (path or sequence)) same select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L27	90	high with data with rate with viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L28	0	viterbi and raghupathy.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L29	4	(sequence with (estimat\$3 or identificat\$3)) with (candidate near path) and select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L30	1672	group with initial with state	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L31	6	(sequence with (estimat\$3 or identificat\$3)) with (candidate with path) with select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L32	0	viterbi and "candidate adj path"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L33	105	viterbi and liu.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12

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L34	416	viterbi with high near speed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L35	31	(sequence with (estimat\$3 or identificat\$3)) with (candidate with path)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L36	2677	375/341	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L37	151	viterbi and candidate adj path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L38	497	714/796	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L39	4251	sequences and initial with state and (symbol) and (decision) and (set or group)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L40	9	(sequence with (estimat\$3 or identificat\$3)) with (candidate adj (path or sequence)) with select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L41	10	("20010035994" "20010035997" "2 0020012152" "20020060827" "2002 0080898").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12

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L42	40	(sequence with (estimat\$3 or identify\$3)) with (candidate adj (path or sequence)) with select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L43	2	(sequence with (estimat\$3 or identificat\$3)) with (candidate near path) with select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L44	4	L13 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L45	6	L24 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L46	3	viterbi and ((candidate adj path) same (error near metric))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L47	6	(sequence with (estimat\$3 or identify\$3)) with (candidate adj (path or sequence)) with select\$3 and viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L48	3	sequences with initial with state same (symbol) same (candidate same decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L49	3	sequence\$5 with initial with state same (symbol) same (candidate) same (decision)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12

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L50	30	(sequence with estimat\$3) with (candidate with path)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L51	4	viterbi with high near speed with group	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L52	21	group with initial with state and viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L53	33	high near data near rate with viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L54	2	"5917863".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L55	8	L36 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L56	3	L38 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L57	5	L10 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12

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L58	2	"2003174686".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L59	0	09/655610	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L60	2	"20030174686".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L61	2	"20030124983".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L62	22	"time-reverse" and viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L63	1	"time-reverse" same viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12
L64	0	"time-reverse" with viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/27 15:12



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IDS Flag Clearance for Application 10603388



Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2006-11-20	33	Y <input checked="" type="checkbox"/>	2006-11-27 12:21:25.0	jtorres1
M844	2003-10-27	13	Y <input checked="" type="checkbox"/>	2004-06-17 10:50:24.0	mjones3
<input type="button" value="Update"/>					



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## Continuity Information for 10/603388

**Parent Data**

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**Child Data**

PCT/US04/20376 is a continuation of 10603388

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## Inventor Information for 10/603388

Inventor Name	City	State/Country
HEGDE, RAJAMOHANA	CHAMPAIGN	ILLINOIS
SINGER, ANDREW	CHAMPAIGN	ILLINOIS
JANOVETZ, JACOB	CHAMPAIGN	ILLINOIS

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**Inventor Name Search Result**

Your Search was:

Last Name = HEGDE

First Name = RAJAMOHANA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10067640</a>	<a href="#">6600340</a>	150	02/04/2002	NOISE TOLERANT WIDE-FANIN DOMINO CIRCUITS	HEGDE, RAJAMOHANA
<a href="#">10603388</a>	Not Issued	80	06/24/2003	Method and apparatus for delayed recursion decoder	HEGDE, RAJAMOHANA

**Inventor Search Completed: No Records to Display.**

**Search Another: Inventor**

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<input type="text" value="HEGDE"/>	<input type="text" value="RAJAMOHANA"/>	<input type="button" value="Search"/>

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**Inventor Name Search Result**

Your Search was:

Last Name = SINGER

First Name = ANDREW

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">07461024</a>	<a href="#">5147308</a>	150	01/04/1990	SURGICAL NEEDLE AND STYLET WITH A GUARD	SINGER, ANDREW
<a href="#">08905039</a>	<a href="#">5897163</a>	150	08/01/1997	SUNTANNING APPARATUS	SINGER, ANDREW
<a href="#">09343088</a>	<a href="#">6239744</a>	150	06/30/1999	REMOTE TILT ANTENNA SYSTEM	SINGER, ANDREW
<a href="#">09817268</a>	<a href="#">6677896</a>	150	03/27/2001	REMOTE TILT ANTENNA SYSTEM	SINGER, ANDREW
<a href="#">10603388</a>	Not Issued	80	06/24/2003	Method and apparatus for delayed recursion decoder	SINGER, ANDREW
<a href="#">10896345</a>	Not Issued	95	07/20/2004	FOLDABLE FIELD TRANSPORTABLE CART FOR SMALL BOATS	SINGER, ANDREW
<a href="#">09640204</a>	<a href="#">7016440</a>	150	08/16/2000	ITERATIVE MMSE EQUALIZATION-DECODER SOFT INFORMATION EXCHANGE DECODING METHOD AND DEVICE	SINGER, ANDREW C.
<a href="#">09823628</a>	<a href="#">6940486</a>	150	03/30/2001	COMPUTERIZED INTERACTOR SYSTEMS AND METHODS FOR PROVIDING SAME	SINGER, ANDREW J.
<a href="#">11061789</a>	Not Issued	20	02/18/2005	Computerized interactor systems and methods for providing same	SINGER, ANDREW J.
<a href="#">06247793</a>	Not Issued	161	03/26/1981	ELECTRICAL CIRCUIT DESIGN AND TESTING DEVICE AND METHOD	SINGER, ANDREW J.
<a href="#">08475349</a>	<a href="#">5711308</a>	150	06/07/1995	WEARABLE APPARATUS FOR MEASURING DISPLACEMENT OF AND IN VIVO TYMPANUM AND METHODS AND SYSTEMS FOR USE THEREWITH	SINGER, ANDREW J.
<a href="#">08477096</a>	<a href="#">5638832</a>	150	06/07/1995	PROGRAMMABLE SUBCUTANEOUS VISIBLE IMPLANT	SINGER, ANDREW J.
<a href="#">08610638</a>	<a href="#">5889843</a>	150	03/04/1996	METHODS AND SYSTEMS FOR CREATING A SPATIAL	SINGER, ANDREW J.

				AUDITORY ENVIRONMENT IN AN AUDIO CONFERENCE SYSTEM	
<u>08692830</u>	Not Issued	168	07/29/1996	COMPUTERIZED INTERACTOR SYSTEMS AND METHOD FOR PROVIDING SAME	SINGER, ANDREW J.
<u>08801085</u>	<u>6262711</u>	150	02/14/1997	COMPUTERIZED INTERACTOR SYSTEMS AND METHOD FOR PROVIDING SAME	SINGER, ANDREW J.
<u>60001875</u>	Not Issued	159	08/03/1995	COMPUTERIZED INTERACTOR SYSTEMS AND METHODS FOR PROVIDING SAME	SINGER, ANDREW J.
<u>60762542</u>	Not Issued	20	01/27/2006	System for optimizing energy purchase decisions	SINGER, ANDREW MARK
<u>60152967</u>	Not Issued	159	09/09/1999	MICHAICAL DEVISE TO ASSIST IN THE APPLICATION OF A CONDOM	SINGER, ANDREW MICHAEL

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Your Search was:

Last Name = JANOVETZ

First Name = JACOB

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10603388	Not Issued	80	06/24/2003	Method and apparatus for delayed recursion decoder	JANOVETZ, JACOB

**Inventor Search Completed: No Records to Display.**

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JANOVETZ	JACOB	<input type="button" value="Search"/>

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## Correspondence Address for 10/603388

Customer Number	Contact Information	Address
No Customer #	Telephone: No Telephone # Fax: No Fax # E-Mail: No E-Mail Address	Robert J. Irvine III McDonnell Boehnen Hulbert & Berghoff 32nd Floor 300 S. Wacker Drive Chicago IL 60606

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- ☐ 1. METHOD AND APPARATUS FOR DELAYED RECURSION DECODER  
**HEDGE, Rajamohana / SINGER, Andrew / JANOVEZ, Jacob, PATENT**  
*COOPERATION TREATY APPLICATION*, Jan 2005  
...from all but one **initial state**. More specifically...identifying the best **candidate path**  
or **sequence** for each **initial state** I may be done...the trellis in **time-reverse** fashion.  
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IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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